

**AMENDMENTS TO THE CLAIMS**

1. (Currently amended) A fuel cell power generation refrigerating system comprising:  
a vapor-compression refrigerating machine; and  
a fuel cell, wherein characterized in that:  
driving power of a compression-machine-driving motor of said vapor-compression a  
vapor-compression refrigerating machine (53) is provided by power generated by said a fuel cell,  
cell (51); and  
——power generated by said the fuel cell (51) is supplied to a commercial system (1)  
side in response to that total required power of said the vapor-compression refrigerating machine  
(53) is below a power generation capacity of said the fuel cell (51) and that said vapor-  
compression the refrigerating machine (53) is stopping.

2. (Currently amended) A fuel cell power generation refrigerating system comprising:  
a vapor-compression refrigerating machine; machine (53);  
a power board (4) supplying operating power to said the vapor-compression refrigerating  
machine (53) using a power supply of a commercial system (1) as an input;  
a fuel cell; cell (51);  
a firstpower conversion element means (52) performing predetermined power conversion  
using an output of the fuel cell (51) as an input to supply operating power to a compression-  
machine-driving motor of said the vapor-compression refrigerating machine; machine (53); and

a power supply control element means providing driving power of said compression-machine-driving a ~~compression-machine-driving~~ motor of said the vapor-compression refrigerating machine (53) by power generated by said the fuel cell (51) as well as supplying power generated by said the fuel cell (51) to said the commercial system (1) side in response to that total required power of said the vapor-compression refrigerating machine (53) is below a power generation capacity of said the fuel cell (51) and that said vapor-compression the refrigerating machine (53) is stopping.

3. (Currently amended) The fuel cell power generation refrigerating system according to claim 1 or 2, further comprising a second power conversion element provided between said commercial system and said compression-machine-driving motor, wherein

said first power conversion element means between said fuel cell the commercial system and said the compression-machine-driving motor and said second the power conversion element means (52) between the fuel cell and the ~~compression-machine-driving motor~~ share the same inverter.

4. (Currently amended) The fuel cell power generation refrigerating system according to claim 3, further comprising a plurality of compression machines (503) for said the vapor-compression refrigerating machine and a plurality of inverters, inverters (506), wherein

the number of operating compression machines (503) is controlled according to required operating load of said the vapor-compression refrigerating machine, and

generated power of a fuel cell (502) is supplied to said the commercial system (1) side from an inverter (506) in a not-operating compression machine system.

5. (Currently amended) The fuel cell power generation refrigerating system according to claim 3, adopting a bidirectional AC/DC inverter (505) as an AC/DC converter to be connected with said commercial system.

6. (Currently amended) The fuel cell power generation refrigerating system according to claim 3, further comprising a plurality of compression machines (503) for said the vapor-compression refrigerating machine, wherein

some of motors for driving some of said the compression machines (503) are connected directly to said the commercial system (1) side.

7. (Currently amended) The fuel cell power generation refrigerating system according to claim 5, wherein

a capacity of a fuel cell (502) is set higher than a capacity of an inverter (506) supplying operating power to said the compression-machine-driving motor (504) of a vapor-compression ~~vapor-compression refrigerating machine,~~ machine (503); and

generated power is supplied to said the commercial system (1) side via said the bidirectional AC/DC inverter (505) in response to that said the fuel cell (502) is operating at the maximum capacity.

8. (Currently amended) The fuel cell power generation refrigerating system according to claim any one of claims 1 or 2, to 7, wherein

the amount of power supply from said the commercial system (4) side to a system inside a building including a fuel cell power generation refrigerating system (5) is detected, and

power output control of said the fuel cell power generation refrigerating system (5) is performed in response to the detected amount of power supply.

9. (Currently amended) The fuel cell power generation refrigerating system according to claim any one of claims 1 or 2, to 8, further comprising a battery element means (510) connected in parallel to said the fuel cell. cell (502).

10. (Currently amended) The fuel cell power generation refrigerating system according to claim any one of claims 1 or 2, to 9, wherein

the amount of power supply from said the commercial system (4) side to a system inside a building including said the fuel cell power generation refrigerating system (5) is detected,

it is detected that the detected amount of power supply has been reduced to a degree that may cause reverse power flow, and

in response to this detection, an operating capacity of said the vapor-compression refrigerating machine (503) is increased forcedly until said the fuel cell (4) follows a load.

11. (Currently amended) The fuel cell power generation refrigerating system according to claim any one of claims 1 or 2, to 10, wherein

a plurality of fuel cell power generation refrigerating systems ~~(5)~~ are provided for one power customer.

12. (Currently amended) The fuel cell power generation refrigerating system according to claim any one of claims 1 to 11, further comprising wherein

a plurality of fuel cell power generation refrigerating systems ~~(5)~~ are provided for one power customer;

a controller ~~(80)~~ is provided in common for said the plurality of fuel cell power generation refrigerating systems, wherein systems ~~(5)~~; and

said the controller ~~(80)~~ provided in common at least controls operation of fuel cells ~~(502)~~ of said the plurality of fuel cell power generation refrigerating systems. systems ~~(5)~~.

13. (Currently amended) The fuel cell power generation refrigerating system according to claim any one of claims 1 to 12, wherein

the amount of power supply from said the commercial system ~~(1)~~ side to a system inside a building including said the fuel cell power generation refrigerating system ~~(5)~~ is detected, and

the controller ~~(80)~~ provided in common controls operation of said the fuel cells ~~(502)~~ in response to the detected amount of power supply.

14. (Currently amended) The fuel cell power generation refrigerating system according to claim any one of claims 1 or 2, to 13, further comprising:

a fee output element means at least outputting an electricity fee and a fuel fee; and

acontrol element means controlling operation of said the fuel cell and performing distribution control of output power in response to the fees.

15. (Currently amended) The fuel cell power generation refrigerating system according to claim 14, wherein

said fee output element means allows unit cost data and fee calculation software for fee calculation to be rewritten at a remote place.

16. (Currently amended) The fuel cell power generation refrigerating system according to claim any one of claims 1 or 2, to 15, wherein

said vapor-compression refrigerating machine (~~503~~) utilizes a direct expansion cycle.

17. (New) The fuel cell power generation refrigerating system according to claim 1, further comprising:

a first power conversion element provided between said fuel cell and said compression-machine-driving motor; and

a second power conversion element provided between said commercial system and said compression-machine-driving motor, wherein

said first power conversion element and said second power conversion element share the same inverter.

18. (New) The fuel cell power generation refrigerating system according to claim 17, further comprising a plurality of compression machines for said vapor-compression refrigerating machine and a plurality of inverters, wherein

the number of operating compression machines is controlled according to required operating load of said vapor-compression refrigerating machine, and

generated power of a fuel cell is supplied to said commercial system side from an inverter in a not-operating compression machine system.

19. (New) The fuel cell power generation refrigerating system according to claim 17, adopting a bidirectional AC/DC inverter as an AC/DC converter to be connected with said commercial system.

20. (New) The fuel cell power generation refrigerating system according to claim 17, further comprising a plurality of compression machines for said vapor-compression refrigerating machine, wherein

some of motors for driving some of said compression machines are connected directly to said commercial system side.

21. (New) The fuel cell power generation refrigerating system according to claim 19, wherein

a capacity of a fuel cell is set higher than a capacity of an inverter supplying operating power to said compression-machine-driving motor of a vapor-compression refrigerating machine, and

generated power is supplied to said commercial system side via said bidirectional AC/DC inverter in response to that said fuel cell is operating at the maximum capacity.